

**TIG Meeting**  
**9/29/04**  
**At EC Services**

- Initial tour of EC Services labs
- Review of minutes from Tampa TIG meeting and 7/30 conference call.
- Discussion of testing options at the bedside and feasibility. TIG or LEG
- Discussion of testing new product as opposed to aged products. TIG or LEG
- Test methods possibilities:
  - Shear: Nothing reliable yet. Vista Med is claiming that they have one. Also have a proposal from Charlie for development. What about using clear gel indenter with a horizontal stiffness test?

Need to evaluate the available devices / sensors as well as develop the method utilizing the clear gel. Wait for development of indenter mold.

- Heat Dissipation / Wetness: Heat and moisture characterization test (Evan Call) proposed ISO method. Working on a new polymer with Martin for better humidity release in the next few weeks. Should have a proposed method by year end.

Evan to provide method by year end.

- Cleanability of the Surface: Modify ANSI standard test / ASTM D4265-98 stain removal test. Let's take the ASTM document and modify it. Can the surface be disinfected? There are standards for surface disinfection tests (get from Evan) ASTM

Break into two:

- Stain – need to modify the existing standard, ASTM D4265-98.
- Disinfection – use the existing standard ASTM
- Friction: measure the force or angle required for the test device to move. Both are published in the same standard (ASTM D1894). Need a disclaimer for AP. Consider future development with shape of indenter and fabrics.

Work is being done on cushion horizontal stiffness test. Need indenter. Abby will give device to Evan.

- Weight limitations: Strong overlap with LEG because of damage with greater weights over time. (failure to float, compression set, standard indenter set) Consider SADMERC method adding force until no more deflection occurs (load / overload).

Need to finalize indenter.

- Pressure redistribution, spatial pressure gradient and contact area: use instrumented indenter with better sensors. Need to consider over time (AP). Would pressure mapping address contact area?

Need to finalize the new indenter with 64 sensors.

- Resistance to envelopment: consider Evan's clear indenter to identify contact or not (use a digital camera and Adobe Photo Shop). It would be binary and would require additional development and disclaimers. Dave suggests that you need pressure gradient to consider envelopment.
- Need to evaluate each test method against the various technologies and making recommendations / modifications / disclaimers.
- Indenter development – Evan has submitted a proposal to develop the std. molds for a full body indenter... awaiting approval.
- Consider utilization of the ball drop test as a resilience test.